

Attorney Docket No.: J3651(C)
Serial No.: 10/506,374
Filed: September 2, 2004
Confirmation No.: 1186

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listing of claims in the application.

Listing of Claims:

Claim 1 (Currently Amended) A hair treatment composition comprising

- i) a polymer comprising an ABA block copolymer, wherein the A groups are polyacrylate blocks or polymethacrylate blocks having units selected from methyl acrylate, methyl methacrylate, methyl ethacrylate, ethyl acrylate, ethyl methacrylate, ethyl ethacrylate, n-butyl acrylate, n-butyl methacrylate, n-butyl ethacrylate, 2-ethylhexyl acrylate, 2-ethylhexyl methacrylate, 2-ethylhexyl ethacrylate, N-octyl acrylamide, 2-methoxyethyl acrylate, 2-hydroxyethyl acrylate, N,N-dimethylaminoethyl acrylate, N,N-dimethylaminoethyl methacrylate, acrylic acid, methacrylic acid, 2-hydroxyethyl acrylate, 2-hydroxyethyl methacrylate and mixtures thereof and the B group is a poly(ethylene glycol), and
- ii) a cosmetically acceptable diluent or carrier,

wherein the hair treatment composition is a hair styling product

wherein each A block of the polymer is connected to the B block by a divalent linker group.

Claim 2 (Currently Amended) ~~A hair treatment composition as claimed in Claim 1,~~
~~wherein the A groups of the polymer are poly(aminoalkyl methacrylate)~~
~~blockscomprising~~

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i) a polymer comprising an ABA block copolymer wherein the A groups of the polymer are poly(aminoalkyl methacrylate) blocks having alkylamino groups derived from moieties selected from the group consisting of C₁₋₄₀ straight chain, C₃₋₄₀ branched chain or C₃₋₄₀ carboxylic moieties, wherein each A block of the polymer is connected to the B block by a divalent linker group, and wherein the B group is a poly(ethylene glycol), and
ii) a cosmetically acceptable diluent or carrier,
wherein the hair treatment composition is a hair styling product.

Claim 3 (Currently Amended) ~~A hair treatment composition as claimed in Claim 2, wherein the A groups of the polymer are poly(2-(dimethylamino)ethyl methacrylate) blocks comprising~~

i) a polymer comprising an ABA block copolymer wherein the A groups of the polymer are poly(2-(dimethylamino)ethyl methacrylate) blocks, wherein each A block of the polymer is connected to the B block by a divalent linker group, and wherein the B group is a poly(ethylene glycol), and
ii) a cosmetically acceptable diluent or carrier,
wherein the hair treatment composition is a hair styling product.

Claim 4 (Cancelled)

Claim 5 (Original) A hair treatment composition as claimed in Claim 4, wherein the divalent linker group is a carbonylalkylene group containing from 2 to 7 carbon atoms which forms an ester linkage to the B block.

Claim 6 (Original) A hair treatment composition as claimed in Claim 4, wherein the divalent linker group is a group of formula $-\text{C}(\text{O})-\text{C}(\text{CH}_3)_2-$.

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Claim 7 (Previously Presented) A hair treatment composition as claimed in claim 1 wherein the polymer is soluble in a solvent selected from water, ethanol and mixtures thereof.

Claim 8 (Previously Presented) A hair treatment composition as claimed in claim 1, further comprising a fragrance or perfume.

Claim 9 (Previously Presented) A hair treatment composition as claimed in claim 1 in the form of a hair spray, mousse, tonic or gel.

Claim 10 (Previously Presented) A hair treatment composition as claimed in claim 1 which comprises from 0.1 to 10% by weight of the polymer.

Claim 11 (Previously Presented) A hair treatment composition as claimed in claim 1 further comprising an additional hair styling polymer.

Claim 12 (Previously Presented) A hair treatment composition as claimed in claim 1, further comprising from 0.01% to 7.5% by weight of a surfactant.

Claim 13 (Previously Presented) A hair treatment composition as claimed in claim 1, further comprising up to 30% by weight of a propellant.

Claim 14 (Previously Presented) A hair treatment composition as claimed in claim 1 which is a hair styling cream or gel including from 0.01% to 10% by weight of a structurant or thickener.

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Claim 15 (Previously Presented) A cosmetic method of treating hair which comprises applying to the hair a hair treatment composition according to claim 1.

Claim 16 (Cancelled)

Claim 17 (Currently Amended) A hair treatment composition according to claim 1 wherein the ABA block copolymer is soluble in a solvent selected from water, ethanol, and mixtures thereof at a level of at least 5% by weight at 25°C.

Claim 18 (Currently Amended) A hair treatment composition according to claim 1 wherein the ABA block copolymer is soluble in a solvent selected from water, ethanol, and mixtures thereof at a level of at least 10% by weight at 25°C.

Claim 19 (Currently Amended) A hair treatment composition according to claim 4 wherein the divalent linker group is selected from

-R-C(O)-O- ;

-R-O-C(O)-O- ;

-R-C(O)-N(R')- ;

-R-O-C(O)-N(R')- ; or

-R-N(R')-C(O)-N(R'')- ;

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in which R is a divalent, optionally substituted, linear or branched C₁-C₁₈ hydrocarbon radical (such as C₄-C₁₂ alkylene), and R' and R'' are independently selected from monovalent, optionally substituted, linear or branched C₁₋₁₈ hydrocarbon radicals.